(FILE 'HOME' ENTERED AT 11:03:34 ON 01 JUL 2002)

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE, SCISEARCH' ENTERED AT 11:03:50 ON 01 JUL 2002 224444 S METHYLAT? OR UNMETHYLAT? OR HYPERMETHYLAT? OR HYPOMETHYLAT? L1881587 S FRET OR STEM? OR HAIRPIN? OR LOOP? L23869 S L1 AND L2 L32168450 S CANCER? OR PROSTAT? L493146 S MYF-3 OR MYF3 OR MYF 3 OR CALCITONIN OR PAX L5 278 S L3 AND (L4 OR L5) L6151 DUP REM L6 (127 DUPLICATES REMOVED) L7 2 S L7 AND FRET L8 11 S L1 AND FRET L9 7 DUP REM L9 (4 DUPLICATES REMOVED) L10 5 S L10 NOT L8 L11451 S L1 (P) QUENCH? L12234 DUP REM L12 (217 DUPLICATES REMOVED) L133 S L13 AND L4 L14 3 DUP REM L14 (0 DUPLICATES REMOVED) L15 1040 S KAY P?/AU L16 88 S L16 AND L1 L17 25 DUP REM L17 (63 DUPLICATES REMOVED) L18

Number				DB	Time stamp
1	L Number	Hits	Search Text		
2 523399 stem\$ or loop\$ or FRET or quench\$ or hairpin\$ 10:53 hairpin\$ 2002/07/01 10:53 hairpin\$ 2002/07/01 10:49 2002/07/01 10:49 2002/07/01 10:49 2002/07/01 10:49 2002/07/01 10:49 2002/07/01 10:49 2002/07/01 10:51 2002/07/01 10:53 2002/07/01 10:54 2002/07/01 10:54 2002/07/01 10:54 2002/07/01 10:54 2002/07/01 10:54 2002/07/01 10:54 2002/07/01 10:54 2002/07/01 10:54 2002/07/01 10:54 2002/07/01 10:54 2002/07/01 10:54 2002/07/01 10:54 2002/07/01 10:54 2002/07/01 10:54 2002/07/01 10:55	1	26551	methylat\$ or hypermethylat\$ or hypomethylat\$	USPAT	2002/07/01 10:47
10 31 (methylat\$ or unmethylat\$) and (stem\$ or loop\$ or FRET or quench\$) and (stem\$ or loop\$ or FRET or quench\$ or hairpin\$)			or unmethylat\$	<u> </u>	2222/25/21 12 53
hairpins	2	523399	stem\$ or loop\$ or FRET or quench\$ or	USPAT	2002/07/01 10:53
New North Name			hairpin\$		
hypomethylat\$ or unmethylat\$) and (stem\$ or loop\$ or FRET or quench\$ or hairpin\$)	3	6668	(methylat\$ or hypermethylat\$ or	USPAT	2002/07/01 10:49
1 cop\$ or FRET or quench\$ or hairpin\$)			hypomethylat\$ or unmethylat\$) and (stem\$ or		
344			loop\$ or FRET or quench\$ or hairpin\$)		
hypomethylat\$ or unmethylat\$) same (stem\$ or loop\$ or FRET or quench\$ or hairpin\$)	4	344	(methylat\$ or hypermethylat\$ or	USPAT	2002/07/01 10:51
1	-		hypomethylat\$ or unmethylat\$) same (stem\$ or		
3424 myf3 or myf-3 or PAx or calcitonin mypomethylat\$ or unmethylat\$ or hypomethylat\$ or unmethylat\$ or unmethylat\$ or unmethylat\$ or unmethylat\$ or unmethylat\$ or unmethylat\$ or myf-3 or PAx or calcitonin myf3 or myf-3 or PAx or calcitonin mypomethylat\$ or unmethylat\$ or unmethylat\$ or unmethylat\$ or unmethylat\$ or unmethylat\$ or myf-3 or PAx or calcitonin myf3 or myf-3 or PAx or calcitonin myf3 or myf-3 or PAx or calcitonin mypomethylat\$ or unmethylat\$ or unmethylat\$ or myf-3 or PAx or calcitonin mypomethylat\$ or unmethylat\$ or myf-3 or PAx or calcitonin mypomethylat\$ or unmethylat\$ or myf-3 or PAx or calcitonin mypomethylat\$ or unmethylat\$ or mypomethylat\$ or unmethylat\$ or unmethylat\$ or mypomethylat\$ or mypomethylat\$ or unmethylat\$ or unmethylat\$ or unmethylat\$ or mypomethylat\$ or unmethylat\$ or unmethylat\$ or mypomethylat\$ or unmethylat\$ or mypomethylat\$ or unmethylat\$ or mypomethylat\$ or unmethylat\$ or unmethylat\$ or mypomethylat\$ or unmethylat\$ or mypomethylat\$ or unmethylat\$ or unmethylat\$ or mypomethylat\$ or unmethylat\$ or mypomethylat\$ or unmethylat\$ or unmethylat\$ or unmethylat\$ or mypomethylat\$ or unmethylat\$ or unmethylat\$ or mypomethylat\$ or unmethylat\$ or unmethylat\$ or mypomethylat\$ or unmethylat\$ or unmethylat\$ or unmethylat\$ or mypomethylat\$ or unmethylat\$ or unm			loops or FRET or quench\$ or hairpin\$)		
10 31	5	3424	mvf3 or mvf-3 or PAx or calcitonin		
((methylat\$ or hypermethylat\$ or hypomethylat\$ or hypomethylat\$ or unmethylat\$) same (stem\$ or loop\$ or FRET or quench\$ or hairpin\$)) FRET or quench\$ (methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) and (FRET or quench\$) ((methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) and (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) ((methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (myf3 or myf-3 or PAx or calcitonin) ((methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (cancer\$ or prostat\$) ((methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (cancer\$ or prostat\$) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) (methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) (methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or unmethylat\$ or hypomethylat\$ or hypermethylat\$ or unmethylat\$ or unmethylat\$ or unmethylat\$ or hypomethylat\$ or unmethylat\$ or unmethyl	1		(mvf3 or mvf-3 or PAx or calcitonin) and	USPAT	2002/07/01 10:51
hypomethylat\$ or unmethylat\$) same (stem\$ or loop\$ or FRET or quench\$ or hairpin\$)			((methylat\$ or hypermethylat\$ or		i
10 10 10 10 10 10 10 10			hypomethylats or unmethylats) same (stems or		1
7 69146 3230 FRET or quench\$ (methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) and (FRET or quench\$) 10 31 ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) and (FRET or quench\$) and (myf3 or myf-3 or PAx or calcitonin) 12 0 ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (myf3 or myf-3 or PAx or calcitonin) 13 0 ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (cancer\$ or prostat\$) 14 4 (methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) 11 194 (methylat\$ or hypermethylat\$ or hypomethylat\$ or hypomethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$ or hypomethylat\$ or unmethylat\$ or hypomethylat\$ or unmethylat\$ or hypomethylat\$ or unmethylat\$ or hypomethylat\$ or hypomethylat\$ or hypomethylat\$ or unmethylat\$ or hypomethylat\$ or hypomethylat\$ or unmethylat\$ or hypomethylat\$ or hypomethyla			loops or FRET or quench\$ or hairpin\$))		
3230 (methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) and (FRET or quench\$) ((methylat\$ or unmethylat\$) and (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (myf3 or myf-3 or PAx or calcitonin) ((methylat\$ or unmethylat\$) same (FRET or quench\$)) same (myf3 or myf-3 or PAx or calcitonin) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (cancer\$ or prostat\$) ((methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) (methylat\$ or hypermethylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or hypomethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or hypomethylat\$ or unmethylat\$) same (FRET or hypomethylat\$ or unmethylat\$) same (FRET or hypomethylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or hypomethylat\$ or unmethylat\$) same (FRET or hypomethylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or hypomethylat\$ or unmethylat\$)	7	69146		USPAT	
hypomethylat\$ or unmethylat\$) and (FRET or quench\$) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) and (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (myf3 or myf-3 or PAx or calcitonin) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (cancer\$ or prostat\$) ((methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) 11	I.		(methylats or hypermethylats or	USPAT	2002/07/01 10:54
quench\$) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) and (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (myf3 or myf-3 or PAx or calcitonin) 13 0 (methylat\$ or unmethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (cancer\$ or prostat\$) ((methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) (methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or hypomethylat\$ or unmethylat\$) same (FRET or hypomethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or hypomethylat\$ or unmethylat\$)		3230	hypomethylats or unmethylats) and (FRET or		
10 31 ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) and (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) 12 0 ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (myf3 or myf-3 or PAx or calcitonin) 13 0 ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (cancer\$ or prostat\$) 14 4 ((methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) 11 194 (methylat\$ or hypermethylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or quench\$) 15 4 (methylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or quench\$)					
hypomethylat\$ or unmethylat\$) and (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (myf3 or myf-3 or PAx or calcitonin) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (cancer\$ or prostat\$) ((methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$ or hypermethylat\$ or unmethylat\$ or unmethylat\$) same (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) (methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or quench\$)	10	21		USPAT	2002/07/01 10:54
quench\$)) and (myf3 or myf-3 or PAx or calcitonin) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or myf-3 or PAx or quench\$)) same (myf3 or myf-3 or PAx or calcitonin) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (cancer\$ or prostat\$) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or nypermethylat\$ or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) (methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) (methylat\$ or hypermethylat\$ or hypermethylat\$ or quench\$) (methylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or quench\$)	10	31	hypomethylats or unmethylats) and (FRET or	ļ	
calcitonin) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (myf3 or myf-3 or PAx or calcitonin) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (cancer\$ or prostat\$) ((methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) (methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or quench\$)			quenchs)) and (mvf3 or mvf-3 or PAx or		
12 0 ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (myf3 or myf-3 or PAx or calcitonin) 13 0 ((methylat\$ or hypermethylat\$ or hypomethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (cancer\$ or prostat\$) 14 4 ((methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) 11 194 (methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$) 4 (methylat\$ or hypermethylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or quench\$) 4 (methylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or quench\$) 4 (methylat\$ or hypermethylat\$ or USPAT 2002/07/01 10:55					
hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (myf3 or myf-3 or PAx or calcitonin) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or quench\$)) same (cancer\$ or prostat\$) ((methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) 11	112	0	((methylats or hypermethylats or	USPAT	2002/07/01 10:54
quench\$)) same (myf3 or myf-3 or PAx or calcitonin) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or quench\$)) same (cancer\$ or prostat\$) ((methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$ or myf-3 or PAx or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) 11	12		hypomethylats or unmethylats) same (FRET or		
calcitonin) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (cancer\$ or prostat\$) ((methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) (methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$) 4 (methylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or USPAT 2002/07/01 10:55			guenchs)) same (mvf3 or mvf-3 or PAx or		
13 0 ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (cancer\$ or prostat\$) 14 4 ((methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$ or hypomethylat\$ or guench\$)) and (myf3 or myf-3 or PAx or calcitonin) 11 194 (methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$) 4 (methylat\$ or hypermethylat\$ or unmethylat\$) same (FRET or quench\$) 4 (methylat\$ or hypermethylat\$ or USPAT 2002/07/01 10:55					
hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) same (cancer\$ or prostat\$) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or myf-3 or PAx or calcitonin) (methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$ or hypomethylat\$ or hypermethylat\$ or unmethylat\$ or unmethylat\$ or unmethylat\$ or hypomethylat\$ or unmethylat\$ or USPAT (methylat\$ or hypermethylat\$ or USPAT (methylat\$ or hypermethylat\$ or USPAT	13	0	((methylat\$ or hypermethylat\$ or	USPAT	2002/07/01 10:55
quench\$)) same (cancer\$ or prostat\$) ((methylat\$ or hypermethylat\$ or hypomethylat\$ or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) (methylat\$ or hypermethylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$) 4 (methylat\$ or hypermethylat\$ or quench\$) 4 (methylat\$ or hypermethylat\$ or USPAT 2002/07/01 10:55	1 13		hypomethylats or unmethylats) same (FRET or		
4 ((methylat\$ or hypermethylat\$ or hypomethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) 11 194 (methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$) 4 (methylat\$ or hypermethylat\$ or USPAT 2002/07/01 10:56	İ		guenchs)) same (cancers or prostats)		
hypomethylat\$ or unmethylat\$) same (FRET or quench\$)) and (myf3 or myf-3 or PAx or calcitonin) 11	14	4	((methylats or hypermethylats or	USPAT	2002/07/01 10:55
quench\$)) and (myf3 or myf-3 or PAx or calcitonin) 11	1 2 2	1	hypomethylats or unmethylats) same (FRET or		
calcitonin) (methylat\$ or hypermethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$) (methylat\$ or hypermethylat\$ or USPAT 4 (methylat\$ or hypermethylat\$ or			mienchs)) and (mvf3 or mvf-3 or PAx or		
11 194 (methylat\$ or hypermethylat\$ or hypomethylat\$ or hypomethylat\$ or unmethylat\$) same (FRET or quench\$) 4 (methylat\$ or hypermethylat\$ or unmethylat\$	Ĭ	ĺ			[
hypomethylat\$ or unmethylat\$) same (FRET or quench\$) 4 (methylat\$ or hypermethylat\$ or USPAT 2002/07/01 10:57	111	194	(methylat\$ or hypermethylat\$ or	USPAT	2002/07/01 10:56
quench\$) 4 (methylat\$ or hypermethylat\$ or USPAT 2002/07/01 10:57	1	104	hypomethylat\$ or unmethylat\$) same (FRET or		
15 4 (methylat\$ or hypermethylat\$ or USPAT 2002/07/01 10:57					
hypomethylat\$ or unmethylat\$) same FRET	15	4	(methylat\$ or hypermethylat\$ or	USPAT	2002/07/01 10:57
	13	1	hypomethylats or unmethylats) same FRET		

L Number	Hits	Search Text	DB	Time stamp
1 Nullber	4	"6117635"	USPAT	2002/07/01 11:18
1 2	26520	methylat\$ or hypermethylat\$ or hypomehtylat\$	USPAT	2002/07/01 11:19
2	20320	or unmethylat\$		
	00436	fluorescen\$ or fluorophor\$	USPAT	2002/07/01 11:20
3	89436	(methylat\$ or hypermethylat\$ or	USPAT	2002/07/01 11:20
4	0	hypomehtylat\$ or unmethylat\$) same "6117635"	002111	,
		hypomentylats of unmethylats, same offices	USPAT	2002/07/01 11:20
5	160	(methylat\$ or hypermethylat\$ or	USFAI	2002,07,02 =====
		hypomehtylat\$ or unmethylat\$) same		
		(fluorescen\$ or fluorophor\$)	HODAM	2002/07/01 11:23
6	28	((methylat\$ or hypermethylat\$ or	USPAT	2002/07/01 11:23
		hypomehtylat\$ or unmethylat\$) same		
		(fluorescen\$ or fluorophor\$)) same		
		(temperature\$)		
1 7	2	"9928501"	DERWENT	2002/07/01 11:24
8	2	"200046398"	DERWENT	2002/07/01 11:24

(FILE 'HOME' ENTERED AT 14:08:37 ON 01 JUL 2002)

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE, SCISEARCH' ENTERED AT 14:09:52 ON 01 JUL 2002 223375 S METHYLAT? OR UNMETHYLAT? OR HYPERMETHYLAT? L15086568 S TEMPERATURE? OR DISSOCIAT? OR MELTING L21667248 S PROBE? OR OLIGO? OR PRIMER? L3671501 S QUENCH? OR FLUORESCENT? OR FRET OR FLUOROPHOR? L443 S L1 AND L2 AND L3 AND L4 L5 1242140 S QUENCH? OR FLUORESCEN? OR FRET OR FLUOROPHOR? L6 73 S L1 AND L2 AND L3 AND L6 L7 47 DUP REM L7 (26 DUPLICATES REMOVED) L8 393 S L1 AND HAIRPIN? Ь9 13 S L9 AND L4 L10 7 DUP REM L10 (6 DUPLICATES REMOVED) L11

=>

L Number	Hits	Search Text	DB	Time stamp
T Mulliper		methylat\$ or hypermethylat\$ or unmethylat\$	USPAT	2002/07/01 12:23
1	26520	methylats of hypermethylats of anmenylats	USPAT	2002/07/01 12:24
2	1108482	temperatur\$ or dissociat\$		1
3	6436		USPAT	2002/07/01 12:25
	·	same (temperatur\$ or dissociat\$)		
4	267	l	USPAT	2002/07/01 12:26
3	20,	unmethylat\$) same (temperatur\$ or	1	
		dissociat\$)) same (hybridi\$ or contact\$)		
		dissociats)) same (mybridis of concacts)	USPAT	2002/07/01 12:27
6	27	(((methylat\$ or hypermethylat\$ or	USPAI	2002/07/01 12:27
		unmethylat\$) same (temperatur\$ or		
		dissociat\$)) same (hybridi\$ or contact\$))		
1		same (probe\$2 or primer\$2 or oligo\$10 or		
		loop\$2 or stem\$)		
	1	100D32 OI SCENIS/		

```
=> s methylat or unmethylat or hypermethylat
=> s methylat? or unmethylat? or hypermethylat?
       223375 METHYLAT? OR UNMETHYLAT? OR HYPERMETHYLAT?
=> s temperatur? or dissociat? or melting
       5086738 TEMPERATUR? OR DISSOCIAT? OR MELTING
=> s l1 and l2
        15230 L1 AND L2
=> s probe or oligo? or primer?
OR IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).
=> s probe? or oligo? or primer?
       1667248 PROBE? OR OLIGO? OR PRIMER?
=> s 14 and 13
          1020 L4 AND L3
=> s quench? or fluorescen? or FRET or fluorophor?
       1242140 QUENCH? OR FLUORESCEN? OR FRET OR FLUOROPHOR?
=> s 16 and 15
            73 L6 AND L5
=> dup rem 17
PROCESSING COMPLETED FOR L7
             47 DUP REM L7 (26 DUPLICATES REMOVED)
```

ho roprosing

L8 ANSWER 18 OF 47 MEDLINE

ACCESSION NUMBER: 1998057338 MEDLINE

DOCUMENT NUMBER: 98057338 PubMed ID: 9396631

TITLE: Fluorescence and NMR studies of intramolecular

stacking of mRNA cap-analogues.

AUTHOR: Wieczorek Z; Zdanowski K; Chlebicka L; Stepinski J;

Jankowska M; Kierdaszuk B; Temeriusz A; Darzynkiewicz E;

Stolarski R

CORPORATE SOURCE: Department of Physics and Biophysics, University of

Agriculture and Technology, Olsztyn, Poland.

SOURCE: BIOCHIMICA ET BIOPHYSICA ACTA, (1997 Nov 1) 1354 (2)

145-52.

Journal code: 0217513. ISSN: 0006-3002.

PUB. COUNTRY: Netherlands

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

intramolecular stacking.

ENTRY MONTH: 199801

ENTRY DATE: Entered STN: 19980122

Last Updated on STN: 19980122 Entered Medline: 19980105

Intramolecular stacking of a series of new synthesized dinucleotide mRNA AB cap analogues has been investigated in aqueous buffers by means of fluorescence and 1H-NMR at various pH and temperatures, and compared with that for 7-methylguanosine(5')ppp(5')guanosine (m7GpppG), as well as its hypermethylated derivative m(3)2,2,7GpppG. Thermodynamic parameters for intramolecular self-association stabilized by stacking were established by temperature-dependent fluorescence quenching, taking into account collisional deactivation of the excited states. Relative orientations of the stacked bases in the cap analogues were determined with the aid of a program GEOSHIFT (Stolarski et al., Biochim. Biophys. Acta (1996) 1293, 97), based on ring-current anisotropy. 1D-soft-TOCSY experiments were applied to extract the exact values of vicinal coupling constants, and hence to resolve solution conformation of the cap molecules. Stacking interaction has been discussed in detail in terms of the cap structural features, e.g., types of bases and length of the 5',5'-phosphate bridges, and regarding the interactions stabilizing

8 ANSWER 27 OF 47 MEDLINE DUPLICATE 6

ACCESSION NUMBER: 94047071 MEDLINE

DOCUMENT NUMBER: 94047071 PubMed ID: 8230207

TITLE: DNA recognition by the EcoK methyltransferase. The

influence of DNA methylation and the cofactor

S-adenosyl-L-methionine.

AUTHOR: Powell L M; Dryden D T; Willcock D F; Pain R H; Murray N E

CORPORATE SOURCE: Institute of Cell and Molecular Biology, University of

Edinburgh, U.K.

SOURCE: JOURNAL OF MOLECULAR BIOLOGY, (1993 Nov 5) 234 (1) 60-71.

Journal code: 2985088R. ISSN: 0022-2836.

PUB. COUNTRY: ENGLAND: United Kingdom

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199312

ENTRY DATE: Entered STN: 19940117

Last Updated on STN: 19990129 Entered Medline: 19931209

AB The methyltransferase of the EcoK type I restriction/modification system

is trimeric, M2S1, where the S subunit determines the sequence

specificity

of the enzyme. The methyltransferase has a strong preference for hemimethylated substrate DNA and, therefore, we have investigated the effect of the methylation state of DNA on binding by the enzyme, together with the effects on binding of the cofactor S-adenosyl-Lmethionine. Our results indicate that the methyltransferase has two non-interacting S-adenosyl-L-methionine binding sites, each with a dissociation constant of 3.60 (+/- 0.42) microM determined by equilibrium dialysis, or 2.21 (+/- 0.29) microM determined by the displacement of a fluorescent probe. Ultraviolet light-induced crosslinking showed that S-adenosyl-L-methionine binds strongly only to the modification (M) subunits. Changes in the sedimentation velocity of the methyltransferase imply a protein conformational change due to S-adenosyl-L-methionine binding. Gel retardation results show that the binding of S-adenosyl-L-methionine to the methyltransferase enhances binding to both specific and non-specific DNAs, but the enhancement is greater for the specific DNA. Differences in binding affinities contribute to the recognition of the specific nucleotide sequence AAC(N)6GTGC by the methyltransferase in preference to a non-specific sequence. In contrast, although the complexes of

unmodified

and hemimethylated DNAs with the methyltransferase have different mobilities in non-denaturing gels, there appears to be no contribution of binding affinity to the distinction between these two substrates. Therefore, the preference for a hemimethylated substrate must be due to a difference in catalysis.